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| APPLICATION NO.                        | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.   | CONFIRMATION NO. |
|--|-------------|----------------------|-----------------------|------------------|
| 10/826,987                             | 04/19/2004  | Paul A. Gassoway     | 063170.7003           | 3477             |
| 5073<br>BAKER BOTT<br>2001 ROSS AV     |             |                      | EXAMINER  ZEE, EDWARD |                  |
| SUITE 600<br>DALLAS, TX                | 75201-2980  |                      | ART UNIT              | PAPER NUMBER     |
|  |             |                      | 2109                  |                  |
| SHORTENED STATUTORY PERIOD OF RESPONSE |             | NOTIFICATION DATE    | DELIVERY MODE         |                  |
| 3 MONTHS                               |             | 04/20/2007           | ELECTRONIC            |                  |

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 04/20/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mike.furr@bakerbotts.com ptomail1@bakerbotts.com

| Office Action Summary    Examiner   Edward Zee   2109     The MAILING DATE of this communication appears on the cover sheet with the correspondence address   Period for Reply     ASHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.   Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.   If INO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.   Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on 19 April 2004. |  |  |  |  |
|---|--|--|--|--|
| Edward Zee  2109  The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status   |  |  |  |  |
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| <ul> <li>WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</li> <li>Status</li> </ul>  |  |  |  |  |
|   |  |  |  |  |
| 1)⊠ Responsive to communication(s) filed on 19 April 2004.  |  |  |  |  |
|   |  |  |  |  |
| 2a) This action is <b>FINAL</b> . 2b) This action is non-final.   |  |  |  |  |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is  |  |  |  |  |
| closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.   |  |  |  |  |
|   |  |  |  |  |
| Disposition of Claims   |  |  |  |  |
| 4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.   |  |  |  |  |
| 4a) Of the above claim(s) is/are withdrawn from consideration.  |  |  |  |  |
| 5) Claim(s) is/are allowed.   |  |  |  |  |
| ☐ Claim(s) <u>1-26</u> is/are rejected.   |  |  |  |  |
| 7) Claim(s) is/are objected to.   |  |  |  |  |
| 8) Claim(s) are subject to restriction and/or election requirement.   |  |  |  |  |
| Application Papers  |  |  |  |  |
| 9)⊠ The specification is objected to by the Examiner.   |  |  |  |  |
| 10)⊠ The drawing(s) filed on <u>19 April 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.  |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  |  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  |  |  |  |  |
| Priority under 35 U.S.C. § 119  |  |  |  |  |
|   |  |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>   |  |  |  |  |
| Attachment(c)   |  |  |  |  |
| Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  |  |  |  |  |
| 2) Notice of Preferences Cited (PTO-932)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 12/13/04.  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  6) Other:  |  |  |  |  |

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#### **DETAILED ACTION**

1. This action is in response to the original filing of April 19<sup>th</sup>, 2004. Claims 1-26 are pending and have been considered below.

### Specification

2. The disclosure is objected to because of the following informalities: the examiner notes that on page 7, line 6 of the specification, "Random Access Memory (RAM)", is not referred to as object 104 as shown in figure 1 of the drawings.

Appropriate correction is required.

## Claim Objections

3. Claims 10, 15 and 24-26 are objected to because of the following informalities: the examiner notes the use of the acronym "HTTP" without first including a description in plain text, as required. Appropriate correction is required.

### Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 16-23 and 26 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 16-23 and 26 are drawn to a computer storage medium, which the applicant has defined in the specification (page 7, lines 1-4) to encompass an

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electronic transmission signal. The Office considers an electronic signal to be a form of energy. Energy is not a series of steps or acts and this is not a process. Energy is not a physical article or object and as such is not a machine or manufacture. Energy is not a combination of substances and therefore not a compilation of matter. Thus, an electronic transmission signal does not fall within any of the four categories of invention. Therefore, Claims 16-23 and 26 are not statutory.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-5, 9, 11 and 16-20 rejected under 35 U.S.C. 102(b) as being anticipated by <u>Ji et al.</u> (5,623,600).

Claims 1 and 16: Ji et al. discloses a method and computer storage medium containing code for maintaining computer security comprising:

- a. providing a signature file [column 7, lines 51-65]. The examiner notes that it is inherent to provide a signature file when performing a signature scanning virus detection method;
- b. receiving an incoming message from at least one client computer(downloaded from the web) [column 5, lines 28-38];

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c. comparing the received incoming message with the signature file to determine whether the incoming message is malicious(performs a version of signature scanning virus detection)

[column 7, lines 51-65];

- d. and blocking (do not transfer file) the incoming messages determined to be malicious from reaching a web server [column 8, lines 4-16].
- Claims 2-4 and 17-19: Ji et al. discloses a method and computer storage medium as in claims 1 and 16 above and further discloses that the comparing further comprises:
- a. parsing the incoming message(scanning the message body) [column 10, lines 26-28]. The examiner notes that scanning the message body implies parsing the message into at least a message header and message body;
- b. converting the incoming message into an internal format(decoding encoded portions) [column 10, lines 57-67];
- c. comparing the converted incoming message with the signature file and determining whether the converted incoming message is malicious based on the comparison(executes a virus-checking program) [column 11, lines 1-2];
- d. reassembling the converted incoming message back into its original format prior to forwarding(transmits the message) it to the web server if it is determined that the code is not malicious(no viruses are detected) and forwarding(transmits the message) the reassembled message to the web server [column 10, lines 42-56 and column 11, lines 4-6].

Claims 5 and 20: Ji et al. discloses a method as in claims 1 and 16 above and further discloses that the signature file contains information about known system vulnerabilities [column 7, lines 51-65]. The examiner notes that it is inherent for the signature file to contain information about

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vulnerabilities in order for the virus detection program to know what kind of vulnerabilities it is scanning for.

- Claim 9: Ji et al. discloses a system for maintaining computer security comprising:
- a. a signature file [column 7, lines 51-65]. The examiner notes that it is inherent to provide a signature file when performing a signature scanning virus detection method;
  - b. a web server(gateway node) [column 3, lines 52-63];
- c. and a proxy machine(proxy server) receiving an incoming message from at least one client computer, comparing the received incoming message with the signature file to determine whether t he incoming message is malicious and blocking incoming messages determined to be malicious from reaching the web server [column 4, lines 56-67].

Claim 11: Ji et al. discloses a system as in claim 9 above and further discloses that the signature file contains information about known system vulnerabilities [column 7, lines 51-65]. The examiner notes that it is inherent for the signature file to contain information about vulnerabilities in order for the virus detection program to know what kind of vulnerabilities it is scanning for.

### Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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8. Claims 6-8, 12-14 and 21-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Ji et al.</u> (5,623,600) in view of <u>Cambridge</u> (7,080,000).

Claims 6, 12 and 21: Ji et al. discloses a method, system and computer storage medium as in claims 1, 9 and 16 above, but does not explicitly disclose that the signature file is made available through a web server. However, Cambridge discloses a similar method, system and computer storage medium and further discloses that the signature file(antivirus database) is made available through a web server(antivirus server) [abstract]. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to make the signature files available through a web server. One would have been motivated to do so in order to make signature file updates easily accessible.

Claims 7, 13 and 22: Ji et al. discloses a method, system and computer storage medium as in claims 1, 9 and 16 above, but does not explicitly disclose continuously updating the signature file. However, Cambridge discloses a similar method, system and computer storage medium and further discloses continuously updating the signature file (antivirus data file) [column 2, lines 63-67]. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to continuously update the signature file. One would have been motivated to do so in order to be able to detect the latest viruses, which are constantly being created.

Claims 8, 14 and 23: Ji et al. discloses a method, system and computer storage medium as in claims 1, 9 and 16 above, but does not explicitly disclose periodically downloading the signature file in order to make its copy current. However, <u>Cambridge</u> discloses a similar method, system and computer storage medium and further discloses periodically downloading the signature files(receiving a new antivirus file at one of the user computers) in order to make its copy current



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[abstract]. Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention to periodically download the signature files. One would have been motivated to do so in order to be able to detect the latest viruses, which are constantly being created.

- 9. Claims 10, 15 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ji et al. (5,623,600).
- Claim 10: <u>Ji et al.</u> discloses a system as in claim 9 above and further discloses that the proxy machine further comprises:
- a. a message parser module for receiving, parsing(scanning the message body) and converting(decoding encoded portions) the incoming messages into a defined format [column 10, lines 26-28 and column 10, lines 57-67]. The examiner notes that scanning the message body implies parsing the message into at least a message header and message body.
- b. a message analyzer module for comparing the converted incoming messages with the signature file(executes a virus-checking program) [column 11, lines 1-2];
- c. and a message reassembly module for reassembling the converted incoming messages determined not to be malicious (no viruses are detected) into their original format and forwarding them to the web server (transmits the message) [column 10, lines 42-56 and column 11, lines 4-6].

However, Ji et al. does not explicitly disclose that the message parser, analyzer and reassembly modules are HTTP message parser, analyzer and reassembly modules. Nonetheless, it would have been obvious to one of ordinary skill in the art at the time of invention to employ an HTTP message parser, analyzer and reassembly modules. One would have been motivated to do so in

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order to capable of processing HTTP messages instead of other forms of electronic messages, depending on the intended application of the system.

Claim 15: Ji et al. discloses a system as in claim 10 above and further discloses that the signature file is linked to the HTTP message analyzer module(executes a virus-checking program) [column 11, lines 1-2]. The examiner notes that it is inherent for the HTTP message analyzer to be linked to the signature file if it is using the signature file to scan for viruses.

Claims 24-26: Ji et al. disclose a method, system and computer storage medium as in claims 1, 9 and 16 above, but does not explicitly disclose that the incoming message comprises an HTTP messages. However, it would have been obvious to one of ordinary skill in the art at the time of invention for the incoming messages to be comprised of HTTP messages. One would have been motivated to do so in order to be capable of processing HTTP messages instead of other forms of electronic messages, depending on the intended application of the system.

#### Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hypponen et al. (6,577,920), Schnurer et al. (5,842,002) and Gluck et al. (5,948,104).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Zee whose telephone number is (571) 270-1686. The examiner can normally be reached on Monday through Thursday 6:30AM-5:00PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James W. Myhre can be reached on (571) 270-1065. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EZ April 12, 2007 Yames W. Myhre

**Supervisory Patent Examiner** 

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